



# Morbidity and Mortality

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

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WEEKLY  
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July 6, 1968

## EPIDEMIOLOGIC NOTES AND REPORTS

## PRESUMPTIVE BUBONIC PLAGUE - Denver, Colorado

A 6-year-old female, living in the East Central section of Denver, was admitted to the Children's Hospital on June 11, 1968, with high fever, painful, enlarged left axillary swelling, inflamed left eardrum, and a beefy-red throat. She was initially treated with penicillin and sulfisoxazole. The day following admission, the axillary swelling had tripled in size, and the patient was started on methicillin. A culture of blood drawn on June 11 later was positive for Gram-negative, bipolar staining rod organisms which appeared to be *Pasteurella pestis* by colonial characteristics, phage typing, and mouse inoculation and

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fluorescent antibody tests. Additional animal inoculation studies are presently underway.

The patient was discharged from the hospital 2 weeks after admission, but was readmitted on June 26 with fluctuant left axillary nodes. These nodes were excised and drained. The exudate contained abundant Gram-negative

(Continued on page 260)

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	27th WEEK ENDED		MEDIAN 1963 - 1967	CUMULATIVE, FIRST 27 WEEKS		
	July 6, 1968*	July 8, 1967		1968	1967	MEDIAN 1963 - 1967
Aseptic meningitis	60	41	33	942	930	796
Brucellosis	7	3	5	99	136	136
Diphtheria	1	3	5	89	56	84
Encephalitis, primary:						
Arthropod-borne & unspecified	23	31	---	457	694	---
Encephalitis, post-infectious	13	14	---	289	481	---
Hepatitis, serum	88	55		2,136	1,077	
Hepatitis, infectious	671	538	519	22,532	20,321	22,000
Malaria	54	43	2	1,106	1,037	50
Measles (rubeola)	234	530	2,594	17,881	55,157	230,081
Meningococcal infections, total	32	32	32	1,691	1,437	1,634
Civilian	29	32	---	1,525	1,333	---
Military	3	---	---	166	104	---
Mumps	1,132	---	---	117,093	---	---
Polio myelitis, total	4	---	4	26	11	30
Paralytic	4	---	4	26	9	28
Rubella (German measles)	608	617	---	40,484	37,487	---
Streptococcal sore throat & scarlet fever	3,772	4,967	4,291	260,660	281,960	255,384
Tetanus	4	4	4	73	95	118
Tularemia	9	3	6	102	82	122
Typhoid fever	4	7	7	147	201	190
Typhus, tick-borne (Rky. Mt. spotted fever)	11	22	6	91	113	87
Rabies in animals	56	73	64	1,906	2,367	2,367

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	2	Rabies in man:	---
Botulism: N.Y.Ups.-1	3	Rubella, Congenital Syndrome:	3
Leptospirosis:	13	Trichinosis: Wash.-1	37
Plague:	---	Typhus, murine: Tex.-1, P.R.-1	10
Psittacosis: Calif.-1, Conn.-1	26		

\*No report from N.Mex. - Holiday

# SURVEILLANCE SUMMARY

## SHIGELLA - July-December 1967\*

During the last 6 months of 1967, a total of 6,556 isolations of shigella from humans was reported to NCDC. This was an increase of 35.2 percent over the 4,849 isolations reported during the first 6 months of 1967 and an increase of 1.7 percent over the 6,448 isolations reported for the last half of 1966. Utilizing the population estimates for July 1967, the overall U.S. attack rate was 3.3 cases per 100,000 population for the last 6 months of 1967 (Figure 1). Of the shigella isolates reported for the last half of 1967, 68.8 percent were from children under 10 years of age, and a preponderance of isolates occurred in male infants compared with females of the same age and in adult females, particularly in the child-bearing years, compared with males of the same age (Table 1).

Figure 1  
ATTACK RATES OF SHIGELLOSIS BY STATE  
JULY 1-DECEMBER 31, 1967

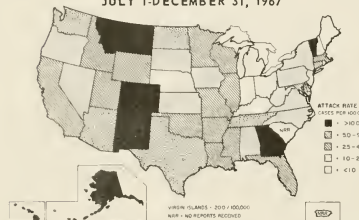


Table 1  
Age and Sex Distribution of Individuals Infected with  
Shigellae in the United States  
July through December 1967

Age (Years)	Male	Female	Unknown	Total
1	202	160	4	366
1-4	873	925	9	1,807
5-9	504	514	6	1,024
10-19	271	331	3	605
20-29	138	270		408
30-39	83	104		187
40-49	38	69		107
50-59	26	40		66
60-69	15	27		42
70-79	14	11		25
80+	5	9		14
Subtotal	2,169	2,460	22	4,651
Child (unspec.)	55	40	2	97
Adult (unspec.)	14	23	7	44
Unknown	698	803	263	1,764
Total	2,936	3,326	294	6,556

\*Preliminary data.

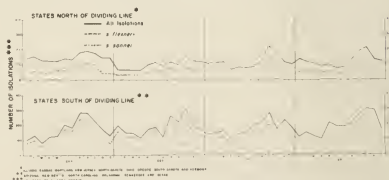
Of the total of 6,556 isolations, 4,918 were classified by serotype (Table 2). These 4,918 shigella isolations represented 23 serotypes. The six most frequently reported serotypes during the 6-month period are presented in Table 2. *Shigella sonnei* accounted for approximately 70 percent of the typed isolations.

Table 2  
The Six Most Frequently Reported Serotypes  
of *Shigella* from Humans  
July-December 1967

Serotype	Number Reported	Percent
<i>S. sonnei</i>	3,432	69.8
<i>S. flexneri</i> 2a	601	12.2
<i>S. flexneri</i> 6	359	7.3
<i>S. flexneri</i> 3a	188	3.8
<i>S. flexneri</i> 2b	183	3.8
<i>S. flexneri</i> 4a	155	3.1
Subtotal	4,918	100.0
Specimens not typed	1,638	
Total	6,556	

Prior to the last 6 months of 1967, more isolates of *S. flexneri* (group B) were obtained than *S. sonnei* (group D) in the Southeast and Southwest with the opposite occurring in the Northeast and Northwest. However, in the last 6 months of 1967, a preponderance of *S. sonnei* isolates over *S. flexneri* was also noted in the Southeast. This reversal resulted from an absolute increase in *S. sonnei* and a simultaneous decrease in *S. flexneri* in both Georgia and Florida, while the proportion of group B/D remained essentially unchanged in the other seven states of the Southeast. In Georgia, *S. sonnei* increased from 37.3 percent to 72.1 percent, and *S. flexneri* decreased from 62.7 percent to 27.9 percent of the combined group B and D isolates; in Florida, *S. sonnei* increased from 35.4 percent to 66.7 percent, and *S. flexneri* decreased from 64.6 percent to 33.3 percent. Investigation is now in progress to determine the cause for these changes. *S. flexneri* has an apparent seasonal pattern which is more evident in the Southern states as is shown in Figure 2.

Figure 2  
SEASONAL DISTRIBUTION OF SHIGELLA ISOLATIONS  
BY SEROTYPE AND REGION  
15 STATES WHICH HAVE REPORTED SINCE JANUARY 1964



In the last 6 months of 1967, one common-source food outbreak of shigella was reported (Table 3). In addition to this outbreak, 12 other confirmed food or waterborne common source outbreaks of shigellosis have been reported to NCDC since 1964.

There were only five nonhuman isolations of shigella reported during the last 6 months of 1967, emphasizing the host specificity of shigella strains for man.

(Reported by Enteric Diseases Unit, Bacterial Diseases Section, and Statistics Section, Epidemiology Program, NCDC.)

A copy of the original report from which these data were derived is available on request from:

National Communicable Disease Center  
Atlanta, Georgia 30333

Attn: Chief, Enteric Diseases Unit, Bacterial Diseases Section, Epidemiology Program

Table 3  
Confirmed Common-Source Food or Waterborne Outbreaks of Shigellosis  
Reported to NCDC, 1964-1967

Year	Serotype	Number Persons Ill	Number Persons at Risk	Attack Rate (Percent)	Location	Food
1964	<i>S. flexneri</i> 4a	100	300	33	California	Potato salad
1964	<i>S. flexneri</i>	17	—	—	N. Carolina	Water
1964	<i>S. flexneri</i> 6	220	526	42	Georgia	Unidentified
1964	<i>S. sonnei</i>	22	—	—	N. Carolina	Unidentified
1964	<i>S. flexneri</i> 2a	13	25	52	Hawaii	Potato salad
1965	<i>S. sonnei</i>	67	96	69	Iowa	Water
1965	<i>S. sonnei</i>	230	—	—	Kansas	Unidentified
1965	<i>S. flexneri</i> 4a	196	320	61	Texas	Potato salad
1965	<i>S. flexneri</i>	250	—	—	New York	Shrimp salad
1965	<i>S. flexneri</i> 2a	20	21	95	Hawaii	Macaroni salad and/or rice
1966	<i>S. flexneri</i> 2a	201	326	62	Hawaii	Unidentified
1966	<i>S. flexneri</i> 2a	99	—	—	Florida	Milk
1967	<i>S. sonnei</i>	84	—	—	Pennsylvania	Apple cider

### SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas June 1968 and 1967 - Provisional Data

Reporting Area	June		Cumulative Jan-June		Reporting Area	June		Cumulative Jan-June	
	1968	1967	1968	1967		1968	1967	1968	1967
NEW ENGLAND.....	18	17	166	181	EAST SOUTH CENTRAL.....	126	145	741	917
Maine.....	-	-	2	-	Kentucky.....	12	20	58	75
New Hampshire.....	-	-	1	5	Tennessee.....	42	22	184	130
Vermont.....	-	-	-	2	Alabama.....	40	63	310	511
Massachusetts.....	10	13	99	112	Mississippi.....	32	40	189	201
Rhode Island.....	2	2	21	17	WEST SOUTH CENTRAL.....	222	279	1,705	1,556
Connecticut.....	6	2	43	45	Arkansas.....	10	7	67	67
MIDDLE ATLANTIC.....	279	284	1,562	1,757	Louisiana.....	60	47	419	309
Update New York.....	17	21	102	139	Oklahoma.....	4	9	43	66
New York City.....	182	162	1,001	1,035	Texas.....	148	216	1,176	1,114
Pa. (Excl. Phila.).....	28	18	108	123	MOUNTAIN.....	41	50	264	306
Philadelphia.....	8	28	121	150	Montana.....	-	-	4	4
New Jersey.....	44	55	230	310	Idaho.....	-	1	3	14
EAST NORTH CENTRAL.....	193	226	1,456	1,577	Wyoming.....	1	4	1	11
Ohio.....	26	34	233	314	Colorado.....	-	1	9	38
Indiana.....	25	16	176	62	New Mexico.....	12	12	75	82
Downstate Illinois.....	13	19	85	88	Arizona.....	20	31	162	164
Chicago.....	76	66	513	473	Utah.....	5	1	7	5
Michigan.....	51	90	437	624	Nevada.....	3	-	23	8
Wisconsin.....	2	1	12	16	PACIFIC.....	103	140	844	935
WEST NORTH CENTRAL.....	24	27	182	143	Washington.....	2	2	25	29
Minnesota.....	2	1	18	20	Oregon.....	3	6	19	26
Iowa.....	3	2	19	14	California.....	98	132	797	874
Missouri.....	9	12	87	48	Alaska.....	-	-	-	1
North Dakota.....	4	1	6	2	Hawaii.....	-	-	3	5
South Dakota.....	4	4	23	18	U. S. TOTAL.....	1,384	1,785	9,551	10,459
Nebraska.....	1	-	17	16	TERRITORIES.....	117	91	583	381
Kansas.....	1	7	12	25	Puerto Rico.....	113	87	552	360
SOUTH ATLANTIC.....	378	617	2,631	3,087	Virgin Islands.....	4	4	31	21
Delaware.....	1	5	18	29					
Maryland.....	37	53	222	315					
District of Columbia.....	50	89	324	354					
Virginia.....	26	27	163	144					
West Virginia.....	5	3	19	10					
North Carolina.....	38	74	343	357					
South Carolina.....	32	68	263	431					
Georgia.....	52	92	400	463					
Florida.....	137	206	899	984					

Note: Cumulative Totals include revised and delayed reports through previous months.

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED  
JULY 6, 1968 AND JULY 8, 1967 (27th WEEK)

AREA	ASEPTIC MENINGITIS		BRUCELLOSIS	DIPHTHERIA	ENCEPHALITIS			HEPATITIS			MALARIA
					Primary including unsp. cases	Post- Infectious	Serum	Infectious			
	1968	1967			1968	1968	1967	1968	1968	1968	
UNITED STATES...	60	41	7	1	23	31	13	88	671	538	54
NEW ENGLAND.....	3	1	-	-	-	2	-	4	28	22	-
Maine.....	-	-	-	-	-	-	-	-	-	-	-
New Hampshire.....	-	-	-	-	-	1	-	-	1	1	-
Vermont.....	-	-	-	-	-	-	-	-	1	-	-
Massachusetts.....	3	1	-	-	-	-	-	1	20	9	-
Rhode Island.....	-	-	-	-	-	1	-	-	2	-	-
Connecticut.....	-	-	-	-	-	-	-	3	4	12	-
MIDDLE ATLANTIC.....	3	4	-	-	2	7	3	31	113	91	7
New York City.....	2	1	-	-	2	1	-	18	21	39	-
New York, Up-State.....	-	-	-	-	-	5	1	3	30	27	-
New Jersey.....	-	2	-	-	-	1	-	10	36	12	3
Pennsylvania.....	1	1	-	-	-	-	2	-	26	13	4
EAST NORTH CENTRAL...	8	1	-	-	3	5	2	2	105	64	3
Ohio.....	5	-	-	-	2	5	-	1	18	16	-
Indiana.....	-	-	-	-	-	-	-	-	21	6	-
Illinois.....	2	1	-	-	-	-	-	-	23	19	1
Michigan.....	1	-	-	-	-	-	2	1	31	18	2
Wisconsin.....	-	-	-	-	1	-	-	-	12	5	-
WEST NORTH CENTRAL...	-	1	2	-	-	2	1	-	42	37	3
Minnesota.....	-	1	-	-	-	1	1	-	11	11	-
Iowa.....	-	-	1	-	-	-	-	-	9	4	-
Missouri.....	-	-	-	-	-	-	-	-	7	14	2
North Dakota.....	-	-	-	-	-	-	-	-	3	-	-
South Dakota.....	-	-	-	-	-	1	-	-	-	-	-
Nebraska.....	-	-	1	-	-	-	-	-	1	4	-
Kansas.....	-	-	-	-	-	-	-	-	11	4	1
SOUTH ATLANTIC.....	5	4	5	-	4	2	4	13	84	90	19
Delaware.....	-	-	-	-	-	-	-	-	4	2	-
Maryland.....	1	1	-	-	-	-	1	3	9	12	1
Dist. of Columbia..	-	-	-	-	-	-	-	-	-	-	-
Virginia.....	-	2	5	-	1	1	-	-	10	32	2
West Virginia.....	-	1	-	-	-	-	-	-	7	1	-
North Carolina.....	-	-	-	-	-	1	-	-	11	6	12
South Carolina.....	-	-	-	-	-	-	-	-	3	4	-
Georgia.....	-	-	-	-	-	-	-	-	16	24	4
Florida.....	4	-	-	-	3	-	3	10	24	9	-
EAST SOUTH CENTRAL...	5	4	-	-	-	5	1	1	29	21	-
Kentucky.....	1	-	-	-	-	-	-	-	9	5	-
Tennessee.....	4	-	-	-	-	5	1	-	14	7	-
Alabama.....	-	4	-	-	-	-	-	1	3	4	-
Mississippi.....	-	-	-	-	-	-	-	-	3	5	-
WEST SOUTH CENTRAL...	16	8	-	1	10	1	-	2	39	51	-
Arkansas.....	-	-	-	-	-	1	-	-	-	3	-
Louisiana.....	8	-	-	-	8	-	-	2	8	-	-
Oklahoma.....	-	-	-	-	2	-	-	-	5	5	-
Texas.....	8	8	-	1	-	-	-	-	26	43	-
MOUNTAIN.....	-	-	-	-	-	-	-	-	17	24	1
Montana.....	-	-	-	-	-	-	-	-	1	6	1
Idaho.....	-	-	-	-	-	-	-	-	-	-	-
Wyoming.....	-	-	-	-	-	-	-	-	1	-	-
Colorado.....	-	-	-	-	-	-	-	-	-	2	-
New Mexico.....	---	---	---	---	---	---	---	---	---	6	---
Arizona.....	-	-	-	-	-	-	-	-	9	6	-
Utah.....	-	-	-	-	-	-	-	-	2	4	-
Nevada.....	-	-	-	-	-	-	-	-	4	-	-
PACIFIC.....	20	18	-	-	4	7	2	35	214	138	21
Washington.....	3	1	-	-	-	-	-	-	21	13	2
Oregon.....	-	-	-	-	-	-	-	1	6	18	-
California.....	17	16	-	-	3	7	2	34	187	106	7
Alaska.....	-	-	-	-	1	-	-	-	-	1	-
Hawaii.....	-	1	-	-	-	-	-	-	-	-	12
Puerto Rico.....	1	-	-	-	-	-	-	-	25	9	-

\*Delayed reports: Encephalitis, primary: Okla. 1

Hepatitis, serum: N.J. delete 1, P.R. 1

Hepatitis, infectious: N.J. delete 6, Ala. 1, P.R. 4

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JULY 6, 1968 AND JULY 8, 1967 (27th WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS	POLIOMYELITIS			RUBELLA
	1968	Cumulative		1968	Cumulative			Total	Paralytic		
		1968	1967		1968	1967			1968	1968	Cum. 1968
UNITED STATES...	234	17,881	55,157	32	1,691	1,437	1,132	4	4	26	608
NEW ENGLAND.....	22	1,081	779	-	87	58	187	1	1	1	181
Maine.....	-	35	229	-	6	3	12	-	-	-	2
New Hampshire..*	-	141	72	-	7	2	2	-	-	-	16
Vermont.....	-	1	29	-	1	-	3	-	-	-	-
Massachusetts..*	17	344	304	-	37	29	105	1	1	1	93
Rhode Island....	-	1	60	-	7	4	40	-	-	-	32
Connecticut.....	5	559	85	-	29	20	25	-	-	-	38
MIDDLE ATLANTIC.....	73	3,365	2,054	13	299	227	66	-	-	-	114
New York City....	46	1,530	394	1	62	38	59	-	-	-	41
New York, Up-State.	18	1,135	464	1	47	54	NN	-	-	-	69
New Jersey.....	6	546	472	9	111	83	7	-	-	-	2
Pennsylvania.....	3	154	724	2	79	52	NN	-	-	-	2
EAST NORTH CENTRAL...	29	3,512	4,987	4	202	184	306	-	-	1	88
Ohio.....	-	276	1,114	2	54	64	18	-	-	-	12
Indiana.....	6	614	570	-	28	21	-	-	-	-	6
Illinois.....	14	1,309	864	1	44	44	24	-	-	1	2
Michigan.....	3	236	866	1	59	41	49	-	-	-	24
Wisconsin.....	6	1,077	1,573	-	17	14	215	-	-	-	44
WEST NORTH CENTRAL...	1	354	2,740	-	86	63	21	-	-	-	10
Minnesota.....	-	15	127	-	19	15	2	-	-	-	-
Iowa.....	-	89	736	-	6	12	19	-	-	-	8
Missouri.....	-	80	326	-	31	12	-	-	-	-	1
North Dakota.....	1	123	796	-	3	1	-	-	-	-	1
South Dakota.....	-	4	51	-	4	6	NN	-	-	-	-
Nebraska.....	-	35	611	-	6	11	-	-	-	-	-
Kansas.....	-	8	93	-	17	6	-	-	-	-	-
SOUTH ATLANTIC.....	31	1,352	6,531	2	344	276	83	1	1	1	65
Delaware.....	1	14	42	-	6	5	4	-	-	-	1
Maryland.....	1	80	140	2	26	33	15	-	-	-	6
Dist. of Columbia..	-	6	21	-	13	10	-	-	-	-	1
Virginia.....	5	288	2,037	-	27	32	17	-	-	-	6
West Virginia.....	5	239	1,319	-	8	20	19	-	-	-	16
North Carolina.....	2	281	836	-	68	58	NN	1	1	1	-
South Carolina.....	-	12	489	-	55	24	2	-	-	-	2
Georgia.....	-	4	30	-	60	43	-	-	-	-	-
Florida.....	17	428	1,617	-	81	51	26	-	-	-	33
EAST SOUTH CENTRAL...	2	523	4,966	1	145	119	99	-	-	-	53
Kentucky.....	-	167	1,287	1	57	34	42	-	-	-	29
Tennessee.....	1	55	1,726	-	48	48	53	-	-	-	24
Alabama.....	1	75	1,302	-	20	24	4	-	-	-	-
Mississippi.....	-	226	651	-	20	13	-	-	-	-	-
WEST SOUTH CENTRAL...	42	4,440	16,795	7	281	204	121	2	2	15	42
Arkansas.....	-	2	1,401	4	19	25	-	-	-	-	1
Louisiana.....	-	2	148	2	79	82	-	-	-	-	2
Oklahoma.....	1	109	3,313	-	48	14	-	1	1	1	-
Texas.....	41	4,327	11,933	1	135	83	121	1	1	14	39
MOUNTAIN.....	16	926	4,410	1	26	25	89	-	-	-	17
Montana.....	-	66	275	1	3	-	3	-	-	-	1
Idaho.....	3	20	365	-	11	1	14	-	-	-	-
Wyoming.....	1	50	178	-	-	1	2	-	-	-	-
Colorado.....	6	475	1,470	-	7	10	12	-	-	-	3
New Mexico.....	---	82	565	---	-	3	---	---	---	---	---
Arizona.....	6	207	955	-	1	4	48	-	-	-	10
Utah.....	-	21	333	-	1	4	10	-	-	-	3
Nevada.....	-	5	269	-	3	2	-	-	-	-	-
PACIFIC.....	18	2,328	11,895	4	221	281	160	-	-	8	38
Washington.....	-	513	5,380	-	26	24	12	-	-	-	1
Oregon.....	8	452	1,507	-	17	20	20	-	-	-	5
California.....	10	1,327	4,744	3	155	221	116	-	-	8	30
Alaska.....	-	2	126	1	2	9	9	-	-	-	1
Hawaii.....	-	34	138	-	11	3	3	-	-	-	1
Puerto Rico.....	5	339	1,969	-	18	10	14	-	-	-	3

\*Delayed reports: Measles: N.H. 28, Mass. delete 6, N.J. 4

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDED  
JULY 6, 1968 AND JULY 8, 1967 (27th WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mf. Spotted)		RABIES IN ANIMALS	
	1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968
UNITED STATES...	3,772	4	73	9	102	4	147	11	91	56	1,906
NEW ENGLAND.....	576	-	1	-	40	-	4	-	-	-	62
Maine..*	10	-	-	-	-	-	-	-	-	-	50
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	2
Vermont.....	17	-	-	-	40	-	-	-	-	-	8
Massachusetts.....	96	-	-	-	-	-	2	-	-	-	1
Rhode Island.....	55	-	-	-	-	-	-	-	-	-	-
Connecticut.....	398	-	1	-	-	-	2	-	-	-	1
MIDDLE ATLANTIC.....	13	-	10	4	7	-	12	1	7	-	17
New York City.....	8	-	5	-	-	-	7	-	-	-	-
New York, Up-State.....	-	-	4	4	7	-	2	-	1	-	11
New Jersey.....	NN	-	-	-	-	-	-	-	1	-	-
Pennsylvania.....	5	-	1	-	-	-	3	1	5	-	6
EAST NORTH CENTRAL...	326	-	8	-	7	-	23	-	3	5	168
Ohio.....	35	-	-	-	1	-	11	-	2	4	69
Indiana.....	95	-	1	-	1	-	3	-	-	-	59
Illinois.....	78	-	5	-	4	-	8	-	1	1	18
Michigan.....	76	-	2	-	1	-	-	-	-	-	9
Wisconsin.....	42	-	-	-	-	-	1	-	-	-	13
WEST NORTH CENTRAL...	125	1	3	-	7	-	8	1	3	23	438
Minnesota.....	18	1	1	-	-	-	-	-	-	9	125
Iowa.....	12	-	-	-	-	-	1	-	-	4	82
Missouri.....	4	-	2	-	5	-	3	1	1	-	75
North Dakota.....	32	-	-	-	-	-	-	-	-	7	75
South Dakota.....	4	-	-	-	1	-	1	-	1	-	34
Nebraska.....	37	-	-	-	-	-	3	-	1	-	22
Kansas.....	18	-	-	-	1	-	-	-	-	2	25
SOUTH ATLANTIC.....	494	2	14	2	7	2	39	5	52	2	211
Delaware.....	4	-	-	-	-	-	-	-	-	-	-
Maryland.....	84	-	1	-	-	-	7	-	5	-	3
Dist. of Columbia..	-	-	1	-	-	1	2	-	-	-	-
Virginia.....	107	-	2	-	1	1	8	-	21	2	87
West Virginia.....	105	-	1	-	-	-	-	-	-	-	27
North Carolina.....	34	-	2	-	2	-	2	2	16	-	8
South Carolina.....	3	-	1	-	-	-	-	1	2	-	-
Georgia.....	7	-	-	1	2	-	9	2	6	-	31
Florida.....	150	2	6	1	2	-	11	-	2	-	55
EAST SOUTH CENTRAL...	659	-	9	-	6	1	17	1	10	8	457
Kentucky.....	113	-	1	-	1	-	3	-	1	5	219
Tennessee.....	483	-	2	-	4	1	11	1	7	2	217
Alabama.....	43	-	3	-	-	-	-	-	1	1	20
Mississippi.....	20	-	3	-	1	-	3	-	1	-	1
WEST SOUTH CENTRAL...	453	1	15	3	22	-	11	3	13	8	353
Arkansas.....	7	-	4	-	2	-	1	1	1	1	41
Louisiana.....	5	-	5	1	4	-	2	-	-	-	31
Oklahoma..*	6	-	-	2	6	-	3	2	6	2	106
Texas.....*	435	1	6	-	10	-	5	-	6	5	175
MOUNTAIN.....	522	-	-	-	5	-	9	-	2	4	46
Montana.....	18	-	-	-	-	-	-	-	-	-	-
Idaho.....	62	-	-	-	-	-	-	-	-	-	-
Wyoming.....	12	-	-	-	1	-	1	-	-	-	2
Colorado.....	351	-	-	-	2	-	2	-	2	2	3
New Mexico.....	---	---	---	---	---	---	6	---	---	---	19
Arizona.....	47	-	-	-	-	-	-	-	-	2	22
Utah.....	32	-	-	-	2	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	604	-	13	-	1	1	24	-	1	6	154
Washington.....	52	-	1	-	-	-	-	-	-	-	-
Oregon.....	51	-	1	-	1	-	3	-	-	-	3
California.....	468	-	11	-	-	1	21	-	1	6	151
Alaska.....	24	-	-	-	-	-	-	-	-	-	-
Hawaii.....	9	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	6	-	5	-	-	-	1	-	-	-	16

\*Delayed reports: SST: Me. 19

Tularemia: Okla. 1

Typhoid: Tex. delete 1

## Morbidity and Mortality Weekly Report

259

Week No.

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED JULY 6, 1968

27

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes	Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over				All Ages	65 years and over		
NEW ENGLAND:	711	435	42	39	SOUTH ATLANTIC:	1,000	515	37	47
Boston, Mass.-----	242	146	13	14	Atlanta, Ga.-----	115	56	6	4
Bridgeport, Conn.-----	43	27	4	2	Baltimore, Md.-----	231	122	6	16
Cambridge, Mass.-----	18	13	-	-	Charlotte, N. C.-----	41	16	2	2
Fall River, Mass.-----	25	16	2	1	Jacksonville, Fla.-----	65	33	-	4
Hartford, Conn.-----	58	32	3	3	Miami, Fla.-----	75	31	-	4
Lowell, Mass.-----	34	25	2	-	Norfolk, Va.-----	43	18	2	4
Lynn, Mass.-----	27	19	-	1	Richmond, Va.-----	70	46	-	-
New Bedford, Mass.-----	28	19	-	1	Savannah, Ga.-----	26	12	5	-
New Haven, Conn.-----	49	27	2	5	St. Petersburg, Fla.-----	60	47	3	2
Providence, R. I.-----	72	43	4	5	Tampa, Fla.-----	57	32	8	1
Somerville, Mass.-----	13	10	2	1	Washington, D. C.-----	167	80	1	8
Springfield, Mass.-----	34	16	3	3	Wilmington, Del.-----	50	22	4	2
Waterbury, Conn.-----	19	9	-	1					
Worcester, Mass.-----	49	33	5	2	EAST SOUTH CENTRAL:	492	250	30	27
MIDDLE ATLANTIC:	3,055	1,801	124	115	Birmingham, Ala.-----	66	32	2	2
Albany, N. Y.-----	56	35	-	1	Chattanooga, Tenn.-----	34	17	4	3
Allentown, Pa.-----	33	22	2	1	Knoxville, Tenn.-----	16	11	-	2
Buffalo, N. Y.-----	132	73	3	8	Louisville, Ky.-----	97	55	10	6
Camden, N. J.-----	38	23	1	1	Memphis, Tenn.-----	106	47	7	7
Elizabeth, N. J.-----	21	14	-	-	Mobile, Ala.-----	46	23	2	2
Eric, Pa.-----	55	31	3	3	Montgomery, Ala.-----	36	16	2	2
Jersey City, N. J.-----	88	52	5	6	Nashville, Tenn.-----	91	49	3	3
Newark, N. J.-----	89	37	1	21	WEST SOUTH CENTRAL:	833	423	20	48
New York City, N. Y.-----	1,711	1,019	81	41	Austin, Tex.-----	21	11	1	-
Paterson, N. J.-----	28	18	-	2	Baton Rouge, La.-----	31	16	2	1
Philadelphia, Pa.-----	314	178	7	9	Corpus Christi, Tex.-----	21	10	-	2
Pittsburgh, Pa.-----	136	73	1	7	Dallas, Tex.-----	131	62	2	7
Reading, Pa.-----	41	31	3	1	El Paso, Tex.-----	19	11	1	-
Rochester, N. Y.-----	111	68	8	7	Fort Worth, Tex.-----	57	26	3	6
Schenectady, N. Y.-----	33	21	3	-	Houston, Tex.-----	171	77	1	14
Scranton, Pa.-----	39	26	2	3	Little Rock, Ark.-----	36	17	2	1
Syracuse, N. Y.-----	44	24	1	2	New Orleans, La.-----	157	88	3	6
Trenton, N. J.-----	34	18	-	1	Oklahoma City, Okla.-----	47	23	2	2
Utica, N. Y.-----	18	12	1	1	San Antonio, Tex.-----	61	32	-	4
Yonkers, N. Y.-----	34	26	2	-	Shreveport, La.-----	36	21	3	2
EAST NORTH CENTRAL:	2,259	1,232	54	139	Tulsa, Okla.-----	45	29	-	3
Akron, Ohio-----	63	35	-	5	MOUNTAIN:	396	212	19	27
Canton, Ohio-----	36	21	2	-	Albuquerque, N. Mex.-----	39	16	5	2
Chicago, Ill.-----	656	370	18	29	Colorado Springs, Colo.-----	27	20	-	1
Cincinnati, Ohio-----	121	58	1	12	Denver, Colo.-----	119	62	7	5
Cleveland, Ohio-----	160	68	5	11	Ogden, Utah-----	16	11	1	2
Columbus, Ohio-----	131	59	1	7	Phoenix, Ariz.-----	97	44	3	12
Dayton, Ohio-----	59	30	2	5	Pueblo, Colo.-----	23	14	-	2
Detroit, Mich.-----	343	184	8	29	Salt Lake City, Utah-----	47	29	-	2
Evansville, Ind.-----	36	23	-	4	Tucson, Ariz.-----	28	16	3	1
Flint, Mich.-----	45	25	1	1	PACIFIC:	1,319	781	28	42
Fort Wayne, Ind.-----	43	27	1	3	Berkeley, Calif.-----	16	11	1	-
Grand Rapids, Mich.-----	38	25	2	1	Fresno, Calif.-----	34	14	-	1
Indianapolis, Ind.-----	127	69	-	11	Glendale, Calif.-----	18	12	1	-
Madison, Wis.-----	33	14	2	1	Honolulu, Hawaii-----	47	21	2	7
Milwaukee, Wis.-----	111	69	-	5	Long Beach, Calif.-----	94	53	1	3
Peoria, Ill.-----	21	5	-	4	Los Angeles, Calif.-----	377	235	5	13
Rockford, Ill.-----	24	19	4	-	Oakland, Calif.-----	65	34	2	1
South Bend, Ind.-----	34	21	1	1	Pasadena, Calif.-----	23	18	-	-
Toledo, Ohio-----	95	54	5	6	Portland, Ore.-----	81	58	1	1
Youngstown, Ohio-----	62	43	1	3	Sacramento, Calif.-----	58	34	2	2
WEST NORTH CENTRAL:	692	411	21	30	San Diego, Calif.-----	95	59	3	1
Des Moines, Iowa-----	45	30	1	1	San Francisco, Calif.-----	164	85	2	3
Duluth, Minn.-----	29	16	-	1	San Jose, Calif.-----	33	21	2	1
Kansas City, Kans.-----	36	22	3	1	Seattle, Wash.-----	133	73	3	9
Kansas City, Mo.-----	112	71	3	7	Spokane, Wash.-----	43	28	3	-
Lincoln, Nebr.-----	17	13	-	-	Tacoma, Wash.-----	38	25	-	-
Minneapolis, Minn.-----	97	53	6	8	Total	10,757	6,060	375	514
Omaha, Nebr.-----	67	45	-	3	Cumulative Totals				
St. Louis, Mo.-----	179	96	2	4	Including reported corrections for previous weeks				
St. Paul, Minn.-----	65	40	1	2	All Causes, All Ages-----	350,958			
Wichita, Kans.-----	45	25	5	3	All Causes, Age 65 and over-----	204,231			
					Pneumonia and Influenza, All Ages-----	15,179			
					All Causes, Under 1 Year of Age-----	16,091			

\*Estimate - based on average percent of divisional total.



## PRESUMPTIVE BUBONIC PLAGUE

(Continued from front page)

rods, culture results are pending. Following therapy with tetracycline and streptomycin, the patient had an uneventful hospital course and was discharged on July 8.

Epidemiologic investigation revealed that the child had not traveled beyond the city limits of Denver within the last 2 years. There was no history of flea bites or contact with rodents. A die-off of squirrels in the area of the child's home is presently under investigation.

Although plague has been recognized as enzootic in Colorado, this is the first case acquired in a metropolitan area in the state.

(Reported by Cecil S. Molloy, M.D., M.P.H., Chief, Section of Epidemiology, Colorado Department of Health; Zoonoses Section, Ecological Investigations Program, NCDC, Kansas City, Kansas, and Bacterial Reference Unit, Bacteriology Section, Laboratory Program, NCDC; and two EIS Officers.)

## TRICHINOSIS - Hawaii

On April 19, 1968, two young men in the South Kona district on the Island of Hawaii ate inadequately cooked meat of a wild pig and subsequently developed trichinosis. The first case, a 22-year-old male, had his onset of illness on May 4. His symptoms included fever, periorbital edema, urticaria, and myalgia. The second case, a 24-year-old male, became ill on May 10, and his symptoms were low grade fever, malaise, myalgia, and diarrhea. An elevated eosinophil count was observed for both patients on laboratory examination.

An acute serum was obtained from the first patient but was negative in the bentonite flocculation test for trichinosis. Both patients were treated with thiabendazole and recovered completely.

Examination of the meat of the wild pig showed it to be infected with many live, encysted *Trichinella spiralis* larvae.

(Reported by J. M. Gooch, D.V.M., M.P.H., Public Health Veterinarian, and R. Penington, M.D., Chief, Epidemiology Branch, Hawaii Health Department; J. E. Alicata, Ph.D., College of Tropical Agriculture, University of Hawaii; and an EIS Officer.)

## Editorial Note:

Most of the cases of trichinosis that have been reported to the Hawaii Department of Health were in persons who had eaten improperly cooked meat or meat products of wild swine.<sup>1</sup> Surveys of the animal populations on the islands of Hawaii and Maui have shown a high prevalence of trichinosis in feral swine and mongooses, whereas domestic swine have a low prevalence of trichinosis.

## Reference:

<sup>1</sup>Alicata, J. E.: Parasitic Infections of Man and Animals in Hawaii, Hawaii Agricultural Experiment Station, College of Tropical Agriculture, University of Hawaii, Technical Bulletin No. 61, November 1964.

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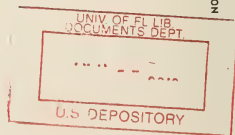
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